

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/612,100	YOUNG ET AL.	
	Examiner	Art Unit	
	Lawrence W. Luk	2187	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/3/2006.
2. ☒ The allowed claim(s) is/are 2-11, 13, 15, 17 and 18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
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***Allowable Subject Matter***

1. **Claims 2-11, 13, 15, 17 and 18 are allowed.**

**Claim 3**

The primary reason for allowance of the Claim 3 is the inclusion of when a voltage of the input terminal is below a threshold voltage, the output terminal outputs a control signal having a first level such that the adaptor supplies the circuit system through the charge input terminal to start the circuit s system and charge the battery; when a voltage of the input terminal is above the threshold voltage, the output terminal outputs the control signal having a second level such that the battery supplies the circuit system; when the first control terminal has the first level, the first switch is turned on; when the first control terminal has the second level, the first switch is turned off, and the first signal is preset at the second level; when the second control terminal has the first level, the second switch is turned on, and when the second control terminal has the second level, the second switch is turned off; and when the third control terminal has the first level, the third switch is turned on, and when the third control terminal has the second level, the third switch is turned off.

Claims 2 and 4-6 depend from Claim 3 and therefore are allowable for at least the same reasons noted above with respect to claim 3.

**Claim 7**

The primary reason for allowance of the Claim 7 is the inclusion of when the voltage of the battery is below a threshold, turning on a second switch such that

the adaptor supplies the circuit system through the charge input terminal and the second switch to start the circuit system and charge the battery; when the voltage of the battery is above the threshold, turning off the second switch and turning on a third switch such that the charge input terminal is coupled to the battery through the third switch, and the circuit system is powered by the battery; and outputting a switch signal from the circuit system to control a first switch coupled between the adaptor and the charge input terminal for controlling charge capacity.

Claims 8-11 and 18 depend from Claim 7 and therefore are allowable for at least the same reasons noted above with respect to claim 7.

Claim 17

The primary reason for allowance of the Claim 17 is the inclusion of when the voltage of the battery is below a threshold voltage, a control signal having a first level is output to turn on a second switch such that the adaptor supplies the circuit system through the second switch to start the circuit system and charge the battery; when the voltage of the battery is above a threshold voltage, a the control signal having a second level is output to turn off the second switch and turn on a third switch such that the circuit system is coupled to the battery through the third switch and the battery supplies the circuit system.

Claims 13 and 15 depend from Claim 17 and therefore are allowable for at least the same reasons noted above with respect to claim 17.


**Conclusion**

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence W Luk whose telephone number is (571) 272-2080. The examiner can normally be reached on 7 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald A Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding are (703) 746-7239, (571) 272-2100 for regular communication and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to receptionist whose telephone number is (571) 272-2100.

LWL  
March 16, 2006



**DONALD SPARKS**  
**SUPERVISORY PATENT EXAMINER**